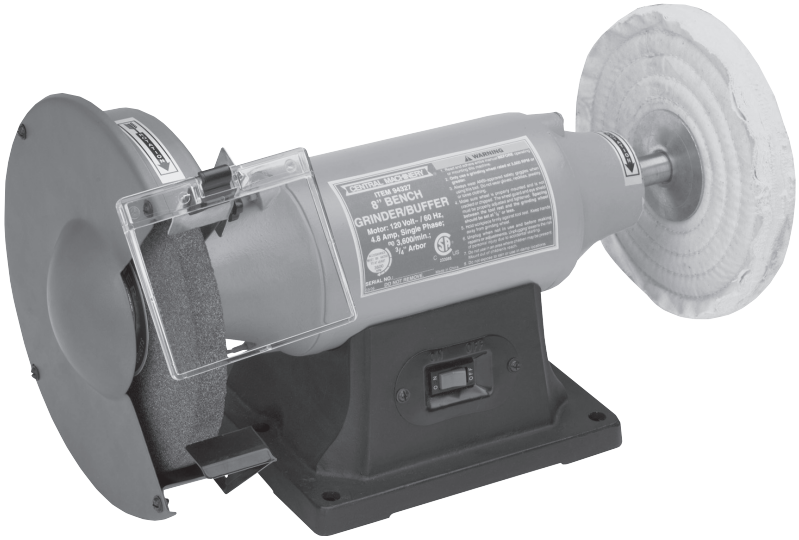
CENTRAL MACHINERY®

# 8” BENCH
# GRINDER / BUFFER

**Model 94327**

## ASSEMBLY AND OPERATING INSTRUCTIONS




**Due to continuing improvements, actual product may differ slightly from the product described herein.**

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HARBOR FREIGHT TOOLS®

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**Visit our Web site at: http://www.harborfreight.com**

**TO PREVENT SERIOUS INJURY,
READ AND UNDERSTAND ALL WARNINGS
AND INSTRUCTIONS BEFORE USE.**

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**For technical questions, please call 1-800-444-3353.**

## PRODUCT SPECIFICATIONS

| Item | Description |
|---|---|
| Electrical Requirements | 120 VAC / 60 Hz / 4.8 Amp / 3600 RPM |
| Power Switch | 2-Position Rocker (ON/OFF) |
| Power Cord | 18 AWG x 3 C SJT / 65" Long |
| Power Plug | 3-Prong, Grounded |
| Grinding Wheel Size/Type | 8" Diameter x 3/4" Thick x 36 Grit (Aluminum Oxide) |
| Buffing Wheel Size | 8" Diameter x 1" Thick |
| Arbor Size | 5/8" Diameter |
| Overall Dimensions | 9" L x 20" W x 10-1/4" H |
| Additional Features | Clear Polycarbonate Eye Shield / Tool Rest |
| Weight | 31 Pounds |

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**233988**

## SAVE THIS MANUAL

You will need this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures, parts list and assembly diagram. Keep your invoice with this manual. Write the invoice number on the inside of the front cover. Keep this manual and invoice in a safe and dry place for future reference.

## GENERAL SAFETY RULES

**⚠ WARNING!**
**READ AND UNDERSTAND ALL INSTRUCTIONS**
**Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.**
**SAVE THESE INSTRUCTIONS**

### WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.

2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.

3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control. Protect others in the work area from debris such as chips and sparks. Provide barriers or shields as needed.

### ELECTRICAL SAFETY

4. **Grounded tools must be plugged into an outlet properly installed and**

**grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

5. **Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way.** Double insulation ⧈ eliminates the need for the three wire grounded power cord and grounded power supply system.

6. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.

7. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

8. **Do not abuse the Power Cord. Never use the Power Cord to carry the tools or pull the Plug from an outlet. Keep the Power Cord away from heat, oil, sharp edges, or moving parts. Replace damaged Power Cords immediately.** Damaged Power Cords increase the risk of electric shock.

9. **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These extension cords are rated for outdoor use, and reduce the risk of electric shock.

## PERSONAL SAFETY

10. **Stay alert. Watch what you are doing, and use common sense when operating this product. Do not use the Grinder/Buffer while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating this product may result in serious personal injury.

11. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.

12. **Avoid accidental starting.** Make sure the Power Cord remains unplugged from its electrical outlet until this product is completely assembled, filled with water, and ready to use.

13. **Do not overreach. Keep proper footing and balance at all times.** Proper

footing and balance enables better control of this product in unexpected situations.

14. **Use safety equipment. Wear eye protection when assembling and using this product.**

## TOOL USE AND CARE

15. **Disconnect the Power Cord Plug from the power source before making any adjustments, changing accessories, or storing the Grinder/Buffer.** Such preventive safety measures reduce the risk of starting the unit accidentally.

16. **Store idle equipment out of reach of children and other untrained persons.** Electrically powered products are dangerous in the hands of untrained users.

17. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect this product's operation. If damaged, have the Grinder/Buffer serviced before using.** Many accidents are caused by poorly maintained equipment.

## SERVICE

18. **Service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.

19. **When servicing this product, use only identical replacement parts. Follow instructions in the *"Inspection, Maintenance, And Cleaning"* section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.

# SPECIFIC SAFETY RULES

1. **Maintain labels and nameplates on the Grinder/Buffer.** These carry important information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

2. **Wear ANSI-approved safety impact eye glasses under a full face shield when using the Grinder/Buffer.** Using personal safety devices reduce the risk for injury. Safety impact eye glasses and full face shields are available from Harbor Freight Tools.

3. **Maintain a safe environment.** Keep the area well lit. Make sure there is adequate surrounding space. Always keep the area free of obstructions, grease, oil, trash, and other debris. Do not use an electrically powered product in areas near flammable chemicals, dusts, and vapors.

4. **Never leave the Grinder/Buffer unattended when it is plugged into an electrical outlet.** Turn off the Grinder/Buffer and unplug the tool before leaving.

5. **Carefully inspect the condition of the Grinder/Buffer before use, and check the tool continually during use.** If any damage is noted, stop immediately and repair or replace the Grinder/Buffer.

6. **Avoid electrical shock.** Make sure the Grinder/Buffer is unplugged from its electrical outlet prior to performing any inspection, maintenance, or cleaning procedures. Do not use the Grinder/Buffer in the rain or in wet conditions.

7. **Use the right product for the job.** There are certain applications for which this product was designed. Do not use small tools, equipment, or accessories to do the work of larger industrial tools, equipment, or accessories. Do not use this product for a purpose for which it was not intended.

8. **Do not allow children or other unauthorized people to handle or play with this product.**

9. **Industrial applications must follow OSHA requirements.**

10. **Prior to using the Grinder/Buffer, make sure the Eye Shield and Wheel Guard is properly positioned and in proper working condition.**

11. **Frequently immerse the workpiece in water to prevent overheating.**

12. **Use the Tool Rest to steady the workpiece.** If the Tool Rest is not used, the torque of the spinning Grinding Wheel may pull the workpiece from your hands.

13. **Do not use aluminum oxide wheels when grinding nonferrous metals such as aluminum and brass.** Use silicon carbide wheels (not included) for nonferrous metals.

14. **Never install a Grinding Wheel on the buffer side of the tool.** Never use any accessory not specifically designed for this machine. Never attempt to install a wire brush, abrasive flap wheel, or sanding disc on this Grinder/Buffer. **Only use Grinding Wheels rated at 3,600 RPM or greater.**

15. **Performance of this tool (if powered by line voltage) may vary depending on variations in local line voltage.** Extension cord usage may also affect tool performance.

16. ⚠ **WARNING!** Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contain chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are: lead from lead-based paints, crystalline silica from bricks and cement or other masonry products, arsenic and chromium from chemically treated lumber. Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

(California Health & Safety Code § 25249.5, *et seq.*)

17. ⚠ **WARNING!** People with pacemakers should consult their physician(s) before using this product. Electromagnetic fields in close proximity to a heart pacemaker could cause interference to or failure of the pacemaker.

18. **Mount the grinding and buffing wheels securely to the tool before plugging in the tool.**

19. ⚠ **WARNING!** The warnings and cautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

**SAVE THESE INSTRUCTIONS**

## GROUNDING

⚠ **WARNING!**

**Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the power cord plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the power cord or plug is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.**

### GROUNDED TOOLS: TOOLS WITH THREE PRONG PLUGS

1. Tools marked with “Grounding Required” have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. **(See Figure A.)**

2. The grounding prong in the plug is connected through the green wire inside the

cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically "live" terminal. **(See Figure A.)**

3. Your tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the following illustration. **(See Figure A.)**

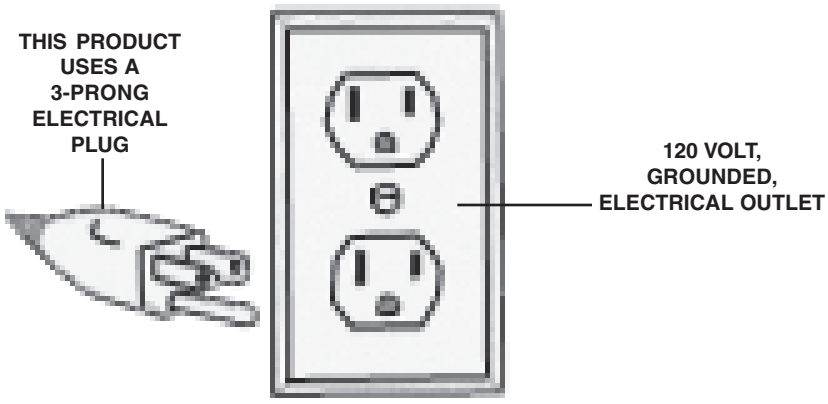



**FIGURE A**

## DOUBLE INSULATED TOOLS: TOOLS WITH TWO PRONG PLUGS

4. Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Underwriters Laboratories, Inc., the Canadian Standard Association, and the National Electrical Code. **(See Figure B.)**

5. Double insulated tools may be used in either of the 120 volt outlets shown in the following illustration. **(See Figure B.)**

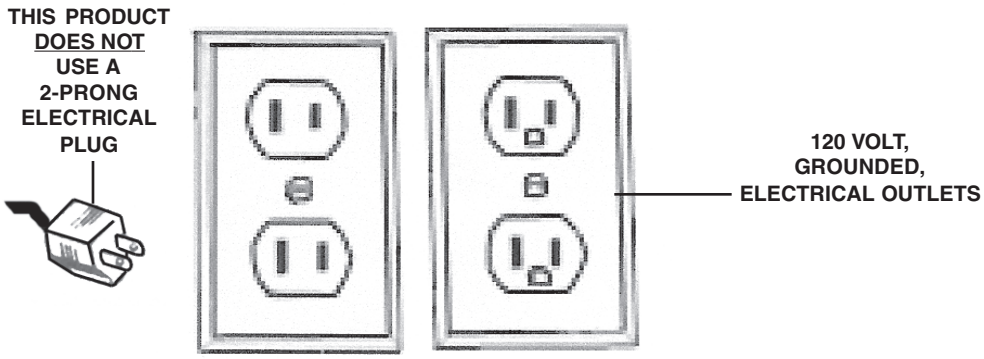



**FIGURE B**

## EXTENSION CORDS

1. ***Grounded*** tools require a three wire extension cord. ***Double Insulated*** tools can use either a two or three wire extension cord.

2. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. **(See Figure C.)**

3. The smaller the gauge number of the wire, the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. **(See Figure C.)**

4. When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required. **(See Figure C.)**

5. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size. **(See Figure C.)**

6. If you are using an extension cord outdoors, make sure it is marked with the suffix "W-A" ("W" in Canada) to indicate it is acceptable for outdoor use.

7. Make sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.

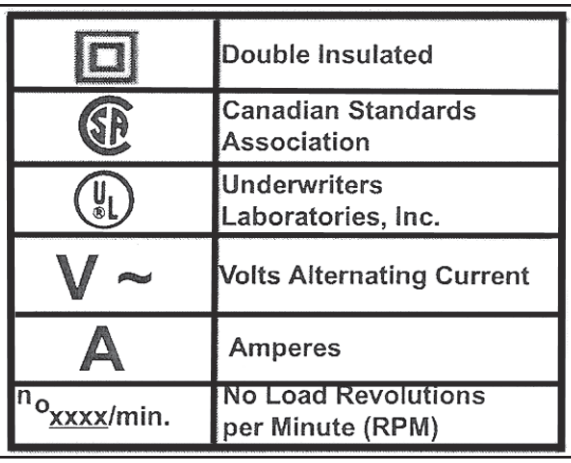
8. Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

**RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS* - (120 VOLT)**

| NAMEPLATE AMPERES (At Full Load) | EXTENSION CORD LENGTH | | | | |
|---|---|---|---|---|---|
| | 25 Feet | 50 Feet | 75 Feet | 100 Feet | 150 Feet |
| 0 – 2.0 | 18 | 18 | 18 | 18 | 16 |
| 2.1 – 3.4 | 18 | 18 | 18 | 16 | 14 |
| 3.5 – 5.0 | 18 | 18 | 16 | 14 | 12 |
| 5.1 – 7.0 | 18 | 16 | 14 | 12 | 12 |
| 7.1 – 12.0 | 18 | 14 | 12 | 10 | - |
| 12.1 – 16.0 | 14 | 12 | 10 | - | - |
| 16.1 – 20.0 | 12 | 10 | - | - | - |

**FIGURE C** *Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

## SYMBOLOGY



| | |
|---|---|
| | Double Insulated |
| | Canadian Standards Association |
| | Underwriters Laboratories, Inc. |
| V ~ | Volts Alternating Current |
| A | Amperes |
| $n_{o\ xxxx}$/min. | No Load Revolutions per Minute (RPM) |

**FIGURE D**

## UNPACKING

When unpacking, check to make sure all the parts shown on the **Parts List on page 14** are included. If any parts are missing or broken, please call Harbor Freight Tools at the number shown on the cover of this manual as soon as possible.

## ASSEMBLY INSTRUCTIONS

**NOTE:**
For additional information regarding the parts listed in the following pages, refer to the **Assembly Diagram on page 14**.

1. **CAUTION!** Always make sure the Grinder/Buffer is disconnected from its electrical outlet prior to assembling the tool, changing accessories, or performing service to the product.

2. **Wear ANSI-approved safety impact eye goggles when assembling the Grinder/Buffer.**

***To Mount The Grinder/Buffer On A Workbench:***

1. Make sure the workbench you intend to mount the Grinder/Buffer upon is flat, level, and sturdy enough to bear the weight of the Grinder/Buffer, any tools and accessories, and workpieces.

2. Set the Grinder/Buffer in the desired location on the workbench. Then, use the

four mounting holes in the Base (15) of the machine as a template with which to mark four spots to drill mounting holes in the workbench.

3. Temporarily remove the Grinder/Buffer from the workbench. Drill the four mounting holes in the workbench. Set the Grinder/Buffer back on the workbench and align the machine's mounting holes in its Base (15) with the four pre-drilled holes in the workbench.

4. Secure the Grinder/Buffer to the workbench, using four appropriately sized bolts, lock washers, and nuts (none included).

***To Install The Buffer Wheel:***

1. Insert the Spacer (3) onto the right side Arbor of the Grinder/Buffer. Insert a Wheel Flange (2), with its flat side outward, onto the right side Arbor. Insert the Buffer Wheel (38) onto the Arbor. Insert another Wheel Flange, with its flat side inward against the Buffer Wheel, onto the Arbor. **(See Assy. Diagram.)**

2. Secure the Buffer Wheel on the Arbor by tightening the Hex Nut (1) onto the Arbor. **NOTE:** This Hex Nut has a *left-hand* thread. To tighten, turn the Hex Nut *counterclockwise*. **(See Assy. Diagram.)**

***To Attach The Wheel Guard:***

1. Unscrew and remove the Hex Nut (35) from the left side Arbor of the Grinder/Buffer. Then, remove the outermost Wheel Flange (2) and Grinding Wheel (34). **(See Assy. Diagram.)**

2. Position the Wheel Guard (33) against the left side End Shield (6), and align the mounting holes in the Wheel Guard with the threaded mounting holes in the End Shield. Secure the Wheel Guard to the End Shield, using the Screws (37) provided. **(See Assy. Diagram.)**

3. Insert the Grinding Wheel (34) back onto the left side Arbor and against the innermost Wheel Flange (2). Insert the outer most Wheel Flange, with its flat side against the Grinding Wheel, back onto the Arbor. Then, secure the Grinding Wheel in place by tightening (clockwise) the Hex Nut (35) onto the Arbor. **(See Assy. Diagram.)**

4. Position the Wheel Cover (36) against the Wheel Guard (33), and align the mounting holes in the Wheel Cover with the threaded mounting holes in the Wheel Guard. Then secure the Wheel Cover to the Wheel Guard, using the Screws (37) provided. **(See Assy. Diagram.)**

***To Attach The Tool Rest:***

1. Align the two mounting holes in the Tool Rest (30) with the two threaded mounting holes in the lower portion of the Wheel Guard (33). Secure the Tool Rest to the Wheel Guard, using two Washers (31) and two Hex Screws (32).

2. **NOTE:** Prior to tighten the two Hex Screws, the Tool Rest must be properly adjusted. The Tool Rest should be between 1/16" and 1/8" from the Grinding Wheel. Once adjusted, firmly tighten the two Hex Screws. **(See Assy. Diagram.)**

***To Attach The Eye Shield:***

1. Align the two mounting holes in the Eye Shield Bracket (29) with the two threaded mounting holes in the upper portion of the Wheel Guard (33). Then secure the Eye Shield Bracket to the Wheel Guard, using the two Screws (37) provided. **(See Assy. Diagram.)**

2. Attach the Eye Shield (28) to the Eye Shield Bracket (29), using one Washer (27) and the Knob (25). **NOTE:** Slightly loosen the Knob, and adjust the Eye Shield up or down to the desired position. Then, retighten the Knob. **(See Assy. Diagram.)**

## OPERATING INSTRUCTIONS

**Always wear ANSI-approved safety impact eye glasses under a full face shield when operating the Grinder/Buffer.**

1. **NOTE:** This Grinder/Buffer includes a Safety Key system. The Power Switch (16) cannot operate unless the Safety Key is inserted next to the Power Switch. **Always remove the Safety Key when you have finished using the machine.**

2. ⚠ **WARNING! The Grinding Wheel (34) can fly apart and cause injury.** Grinding Wheels must always be checked for cracks and imperfections. This can be done with the "ring test". Tap the Grinding Wheel gently near the outer rim with the handle of a screwdriver. You should hear a clear bell-like ring. If a dull thud occurs, do not use the Grinding Wheel. The Grinding Wheel may be damaged and could come apart during operation.

3. Plug the Power Cord (13) into the nearest 120 volt, grounded, electrical outlet. Then insert the Safety Key in the Power Switch (16), and turn the Power Switch to its **"ON"** position.

4. Allow the Grinding Wheel (34) to spin up to full speed.

5. Place the workpiece you wish to grind on the Tool Rest (30), and slowly push the workpiece forward to make contact with the Grinding Wheel. Do not force the workpiece. Let the Grinding Wheel (34) grind at its own pace. Make sure to hold the workpiece firmly with both hands.

6. The workpiece will quickly become heated. Therefore, frequent immersing in water is required. **NOTE:** When grinding high speed steels such as drill and tool bits, avoid high temperature buildup as this can affect the temper of the steel.

7. For small workpieces such as drill bits or chisels, avoid applying pressure to the Grinding Wheel (34) at a high angle that could cause the workpiece to become lodged between the Tool Rest (30) and the Grinding Wheel.

8. To avoid kickback and other hazards, grinding without the use of the Tool Rest (30), or "freehand grinding", should always be done on the lower quarter of the Grinding Wheel (34).

9. **NOTE:** The Tool Rest (30) must always be properly adjusted between 1/16" and 1/8" from the Grinding Wheel (34). The Tool Rest may require adjustment as the Grinding Wheel wears down through use.

10. When using the Buffer Wheel (38), apply buffing wax (not included) in stick form to the moving Buffer Wheel before buffing metals. This enhances the buffing and polishing process. **NOTE:** If the Buffer Wheel becomes loaded with excess buffing compound, replace the Wheel for better results.

11. When finished using the Grinder/Buffer, turn the Power Switch (16) OFF and remove the Safety Key. Store the Safety Key in a safe and secure location until it is needed again.

***Dressing The Grinding Wheel:***

1. **NOTE:** New Grinding Wheels frequently are not true and during operation often become grooved, glazed (buildup), out of round, or out of shape. To correct this situation, you will need a grinding wheel dresser (available from Harbor Freight Tools.)

2. Make sure to stand at the side of the Grinding Wheel (34) for this operation.

3. If the Grinding Wheel (34) is new, allow it to spin for a minute with no load. If the Grinding Wheel spins straight and true, you will not need to dress it prior to operation. If it does not spin straight and true, proceed with the following instructions:

   A. **If you are using a "pistol grip" dresser,** grip the handle firmly with one hand, and the arm of the dresser with the other hand. Allow the Grinding Wheel to reach full speed. Use the Tool Rest (30) to support your hand and the dresser, and evenly apply the dresser to all surfaces of the Grinding Wheel. The Grinding Wheel can be dressed in a few minutes.

B. **If you are using an "inline dresser",** hold the handle firmly. Place the dresser on the Tool Rest (30) so that its wheels can move freely (i.e., the exposed part of the wheel should be facing up). Let the Grinding Wheel reach full speed, and apply the dresser to all surfaces of the Grinding Wheel.

## INSPECTION, MAINTENANCE, AND CLEANING

1. ⚠ **WARNING!** Make sure the Grinder/Buffer is disconnected from its electrical outlet prior to performing any inspection, maintenance, or cleaning procedures.

2. **Before each use,** inspect the general condition of the Grinder/Buffer. Check for cracked or broken parts, damaged electrical wiring, damaged Grinding Wheel, and any other condition that may affect safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use.
**Do not use damaged equipment.**

3. **To clean:** Use a mild detergent or mild solvent to clean the exterior of the Grinder/Buffer. Do not immerse the Buffer/Grinder in liquid.

4. **When storing,** make sure to store the Buffer/Grinder in a clean, dry, safe location out of reach of children and other unauthorized people.

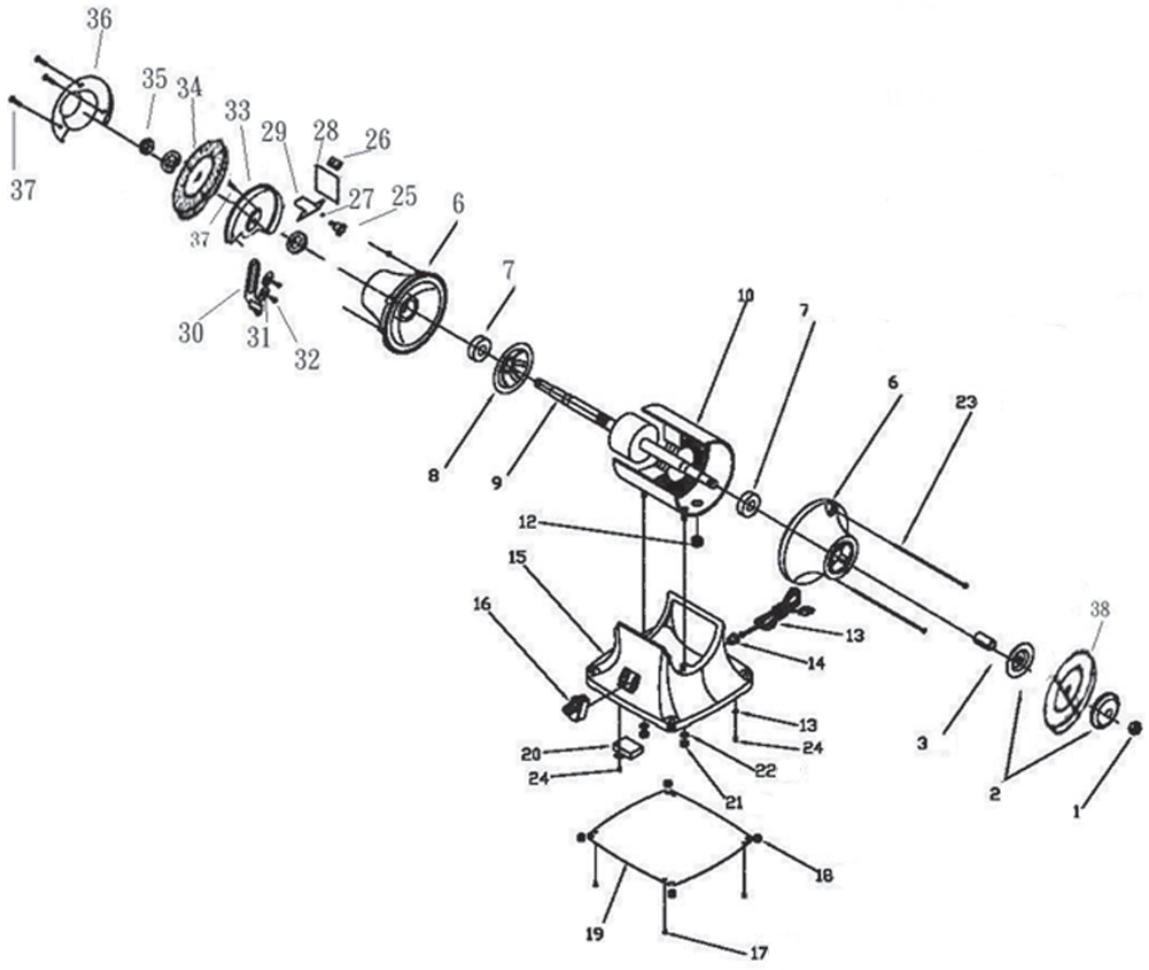
5. ⚠ **CAUTION! All maintenance, service, or repairs not mentioned in this manual must only be performed by a qualified service technician.**

## PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISKS AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

# PARTS LIST & ASSEMBLY DIAGRAM

| Part # | Description | Qty. | Part # | Description | Qty. |
|---|---|---|---|---|---|
| 1 | Hex Nut (Left-Hand Thread / 1/2”-12) | 1 | 20 | Capacitor | 1 |
| 2 | Wheel Flange | 4 | 21 | Hex Nut (1/4”-20) | 2 |
| 3 | Spacer | 2 | 22 | Lock Washer (1/4”) | 2 |
| 4 | Hex Nut (5-0.8mm) | 4 | 23 | Flange Screw (5-0.8 x 228mm) | 2 |
| 5 | Serrated Washer (#10) | 4 | 24 | Self Tapping Screw (4-1.4 x 8mm) | 2 |
| 6 | End Shield | 2 | 25 | Knob | 1 |
| 7 | Bearing (620277) | 2 | 26 | Eye Shield Holder | 1 |
| 8 | Motor Fan | 1 | 27 | Washer | 1 |
| 9 | Rotor | 1 | 28 | Eye Shield | 1 |
| 10 | Stator w/Housing | 1 | 29 | Eye Shield Bracket | 1 |
| 11 | Hex Nut (1/2”-12) | 1 | 30 | Tool Rest | 1 |
| 12 | Grommet | 1 | 31 | Washer | 2 |
| 13 | Power Cord | 1 | 32 | Hex Screw | 2 |
| 14 | Strain Relief | 1 | 33 | Wheel Guard | 1 |
| 15 | Base | 1 | 34 | Grinding Wheel | 1 |
| 16 | Power Switch w/Safety Key | 1 | 35 | Hex Nut (Left Side) | 1 |
| 17 | Pan Head Screw (#10-24x1/4”) | 4 | 36 | Wheel Cover | 1 |
| 18 | Bumper | 4 | 37 | Screw | 7 |
| 19 | Plastic Cover | 1 | 38 | Buffer Wheel | 1 |




**NOTE:**
Some parts are listed and shown for illustration purposes only,
and are not available individually as replacement parts.

CENTRAL MACHINERY®

# LIMITED 90 DAY/1 YEAR WARRANTY

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser for a period of ninety days from date of purchase that the motor, the belts (if so equipped), and the blades (if so equipped) are free of defects in materials and workmanship. Harbor Freight Tools also warrants to the original purchaser, for a period of one year from date of purchase, that all other parts and components of the product are free from defects in materials and workmanship. This warranty does not apply to damage due directly or indirectly to misuse, abuse, negligence or accidents; repairs or alterations outside our facilities; or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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